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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/657,313	09/08/2003	Cheri M. Boykin	1789A1	9768
75	90 11/14/2005		EXAM	INER
PPG INDUSTRIES, INC			CHAUDHRY, SAEED T	
	AL PROPERTY DEPT.		A DOT LOUIS	D 4 DED 1411 4 DED
ONE PPG PLA	CE		ART UNIT	PAPER NUMBER
PITTSBURGH, PA 15272			1746	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
OFF: A - 4' O	10/657,313	BOYKIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Saeed T. Chaudhry	1746	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNION 36(a). In no event, however, may a rewill apply and will expire SIX (6) MON e, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this can annual can be ann	· .
Status			
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☐ This			
3) Since this application is in condition for allowa	nce except for formal matte	ers, prosecution as to the	e merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-40 is/are pending in the application			
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-40</u> are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc		by the Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is objected to. See 37 CF	FR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PT	O-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority document	s have been received		-
2. Certified copies of the priority document		onlication No	
3. Copies of the certified copies of the prior	•	•	Stage
application from the International Bureau	•		
* See the attached detailed Office action for a list	•	received.	
	·		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	\ 450\\
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of In 6) Other:	formal Patent Application (PTC 	J-152)

Applicant's election with traverse of Group I, claims 1-30 in the reply filed on August 24, 2005 is acknowledged. The restriction requirement in the office action mailed on July 20, 2005 has typographical error in the Group I. The Group I, should be claims 1-28, instead of claims 1-30. Therefore, a new election is required. The examiner tried to resolve this problem by calling the applicant's representative on November 7, and left the message on the voice mail. The examiner has not received a return telephone call.

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 1-28, drawn to a method of cleaning a photoactive or hydrophilic surface, classified in Class 134, subclass 28.

Group II: Claims 29-35, drawn to a device having a housing; a first chamber; a flow passage; and a selector valve, classified in Class 134, subclass 84.

Group III: Claims 36-40, drawn to a cleaning solution, classified in Class 510, subclass 108.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (M.P.E.P. § 806.05(e)). In this case the process as claimed can be practiced by another materially different apparatus such as without a first chamber or a selector valve or the apparatus as claimed can be used to practice another and materially different process such as regenerating liquid in an ion exchange bed.

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Inventions III and I are related as product and process of use. The inventions can be

shown to be distinct if either or both of the following can be shown: (1) the process for using the

product as claimed can be practiced with another materially different product or (2) the product

as claimed can be used in a materially different process of using that product (MPEP

§ 806.05(h)). In the instant case the product can be used as a cooling agent in an heat exchanger.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they

are not disclosed as capable of use together and they have different modes of operation, different

functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the cleaning

solution as claimed herein can be used in another apparatus without a chamber or without a

selector valve.

Because these inventions are distinct for the reasons given above and have

acquired a separate status in the art as shown by their different classification, have acquired a

separate status in the art because of their recognized divergent subject matter, the search required

for Group I is not required for Group II, restriction for examination purposes as indicated is

proper.

A telephone call was made to Mr. Jacques B. Miles on July 12 and 18, 2005 to request an

oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the response to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed.

MICHAEL BARR
SUPERVISORY PATENT EXAMINER

Chile

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Joint Inventors

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed T. Chaudhry whose telephone number is (571) 272-1298. The examiner can normally be reached on Monday-Friday from 9:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Barr, can be reached on (571)-272-1414. The fax phone number for non-final is (703)-872-9306.

When filing a FAX in Gp 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1700.

MICHAEL BARR
SUPERVISORY PATENT EXAMINER

Saeed T. Chaudhry
Patent Examiner